

IAP7 Rec'd PCT/PTO 30 DEC 2005

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | |
|---|--|---|
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER 78199/00002 |
| INTERNATIONAL APPLICATION NO. PCT/CN2003/000862 | | INTERNATIONAL FILING DATE 16 OCTOBER 2003 |
| TITLE OF INVENTION A MULTIPHASE REACTOR | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/563144 |
| APPLICANT(S) FOR DO/EO/US Hanxiang SHI | | PRIORITY DATE CLAIMED 30 JUNE 2003 |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☒ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☒ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☒ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☒ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

IAP20 Rec'd PCT/PTO 30 DEC 2005

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Information unless it displays a valid OMB control number.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| | | | | | |
|--|--------------|---|----------|--|------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/263144 | | INTERNATIONAL APPLICATION NO. PCT/CN2003/000862 | | ATTORNEY'S DOCKET NUMBER 78199/00002 | |
| 20. Other items or information: Copy of WO2005/000451; Copy of International Search Report; Letter for filing without Declaration; Post card | | | | | |
| The following fees have been submitted | | | | CALCULATIONS PTO USE ONLY | |
| 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300 | | | | \$ | \$300.00 |
| 22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 All other situations..... \$200 | | | | \$ | \$200.00 |
| 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 All other situations..... \$500 | | | | \$ | \$400.00 |
| TOTAL OF 21, 22 and 23 = | | | | | \$900.00 |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | |
| 13 - 100 = | 0 /50 = | 0 | x \$250 | \$ | \$0.00 |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | | | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | \$ | |
| Total claims | 7 - 20 = | 0 | x \$ 50 | \$ | \$0.00 |
| Independent claims | 1 - 3 = | 0 | x \$ 200 | \$ | \$0.00 |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360 | \$ | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ | \$900.00 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | | |
| SUBTOTAL = | | | | \$ | \$1,030.00 |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | \$ | \$130.00 |
| TOTAL NATIONAL FEE = | | | | \$ | \$1,160.00 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | \$ | \$0.00 |
| TOTAL FEES ENCLOSED = | | | | \$ | \$1,160.00 |
| | | | | Amount to be refunded: | \$ |
| | | | | Amount to be charged | \$ |

10/563144

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

IAP20 Rec'd PTO/PTO 30 DEC 2005

- a. ☐ A check in the amount of \$ _____ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit
Account No. 50-0902 (78199/00002). A duplicate copy of this form is enclosed.
- d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not
be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed
and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Susan L. Mizer
Tucker Ellis & West LLP
1150 Huntington Bldg.
925 Euclid Avenue
Cleveland, Ohio 44115-1475

SIGNATURE

Christian R. Drago

NAME

52,472

REGISTRATION NUMBER

Docket No. 78199/00002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
30 DEC 2005

| | | |
|-----------------------|---|----------------------|
| IN THE APPLICATION OF | : | SHI, Hanxiang |
| FOR | : | A MULTIPHASE REACTOR |
| INT'L APPLICATION NO. | : | PCT/CN2003/000862 |
| INT'L FILING DATE | : | 16 OCTOBER 2003 |
| PRIORITY DATE CLAIMED | : | 30 JUNE 2003 |
| U.S. SERIAL NO. | : | UNKNOWN |
| U.S. FILING DATE | : | UNKNOWN |
| EXAMINER | : | UNKNOWN |
| ART UNIT | : | UNKNOWN |
| CUSTOMER NO. | : | 23380 |

LETTER**Mail Stop PCT**

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

The attached application is submitted herewith absent a Declaration and Power of Attorney forms in accordance with 37 CFR § 1.53(b). Enclosed is a Preliminary Amendment to eliminate multiple dependencies in a claim, a PCT International Search Report and a PCT International Preliminary Examination Report. The inventor is as follows:

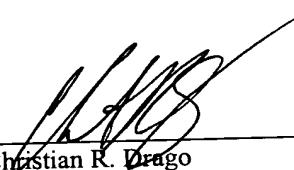
Hanxiang SHI
Shijiacan, Zonghan Street
Cixi, Zhejiang Province, 315301
CHINA

This patent application claims priority of PCT Patent Application No. PCT/CN2003/000862 filed October 16, 2003.

It is requested that the Patent Office direct all correspondence regarding this application to:

Susan L. Mizer
Tucker Ellis & West LLP
925 Euclid Avenue
1150 Huntington Building
Cleveland, Ohio 44115

Date: December 30, 2005


Christian R. Drago
Tucker Ellis & West LLP
925 Euclid Avenue
1150 Huntington Building
Cleveland, Ohio 44115
Registration No. 52,472
Customer No. 23380
Phone: 216/696-4943
Facsimile: 216/592-5009

10/563144

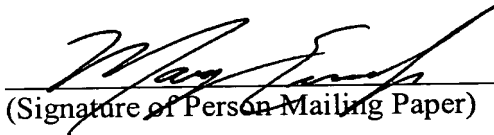
IAP20 REC'D PCTO 30 DEC 2005

MAIL CERTIFICATION UNDER 37 C.F.R. §1.10

I hereby certify that the attached US National Phase Patent Application (along with any other paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on **December 30, 2005** in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number **EV 515354224 US** addressed to the: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Mary Erne, Jr.

(Typed or Printed Name of Person Mailing Paper)


(Signature of Person Mailing Paper)

Docket No.: 78199/00002